Name:

at1121exam_practice: Radicals and Squares (v602)

Question 1

Simplify the radical expressions.

$\sqrt{63}$ $\sqrt{44}$ $\sqrt{12}$

Question 2

Find all solutions to the equation below:

$$\frac{(x-9)^2}{10} - 2 \;=\; 8$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 8x \;=\; 33$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y \;=\; 2x^2 + 24x + 68$$

Express the function in **vertex form** and identify the **location** of the vertex.